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Application No.

10/723,068

Examiner

Applicant(s)

MASTERS ET AL.

Art Unit

John T. Kwon

3747

Rejected Allowed

(Through numeral) Cancelled

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Restricted

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| Cla      | aim      |                                                  | Date                                             |                                          | Claim    | 1         | Date                                             |                    | 4   | Cla   | aim        |                      |          | Date          | <del>)</del> |          |          |   |
|----------|----------|--------------------------------------------------|--------------------------------------------------|------------------------------------------|----------|-----------|--------------------------------------------------|--------------------|-----|-------|------------|----------------------|----------|---------------|--------------|----------|----------|---|
| Final    | Original | 7/9/04                                           |                                                  | 12 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | Final    | O O O O O |                                                  |                    |     | Final | Original   |                      |          |               |              |          |          |   |
| i E      | ō        |                                                  |                                                  |                                          | Ē   d    | 5         |                                                  |                    |     | ш     | Ori        |                      |          |               |              |          |          |   |
|          | 1        | =                                                |                                                  |                                          | 5        | 1         |                                                  |                    |     |       | 101        |                      |          |               |              |          | $\Box$   |   |
|          | 2        |                                                  |                                                  |                                          | 5        | 2         |                                                  |                    |     |       | 102        |                      |          |               |              |          |          |   |
|          | 3        |                                                  |                                                  |                                          | 5        | 3         |                                                  |                    |     |       | 103        |                      |          |               |              |          | П        |   |
|          | 4        |                                                  |                                                  |                                          | 5        | 4         |                                                  |                    |     |       | 104        |                      |          |               |              |          |          |   |
|          | 5        |                                                  |                                                  |                                          | 5        | 5         |                                                  |                    |     |       | 105        |                      |          |               |              |          |          |   |
|          | 6        |                                                  |                                                  |                                          | 5        | 6         |                                                  |                    |     |       | 106        |                      |          |               |              |          | $\Box$   |   |
|          | 7        |                                                  |                                                  |                                          |          | 7         |                                                  |                    |     |       | 107        |                      | 1        |               |              |          |          |   |
|          | 8        |                                                  |                                                  |                                          | 5        | 8         |                                                  |                    |     |       | 108        |                      |          |               |              |          |          |   |
|          | 9        |                                                  |                                                  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1    | 5        | 9         |                                                  |                    |     |       | 109        |                      |          |               |              | $\perp$  | $\perp$  |   |
|          | 10       |                                                  |                                                  |                                          |          | 0         |                                                  |                    |     |       | 110        |                      |          |               |              | $\perp$  |          |   |
|          | 11       |                                                  |                                                  |                                          | 6        | 1         |                                                  |                    |     |       | 111        |                      | $\perp$  | Ш             |              | _        | $\dashv$ |   |
|          | 12       |                                                  |                                                  |                                          | 6        | 2         |                                                  | $\perp$            |     |       | 112        |                      |          | Ш             |              |          |          |   |
|          | 13       |                                                  |                                                  | 4                                        | 6        | 3         |                                                  | $\perp$            |     |       | 113        |                      | _        | Ш             | $\sqcup$     |          | 4        |   |
|          | 14       |                                                  |                                                  | $\perp \perp \parallel \parallel$        | 6        | 4         |                                                  | $\perp \perp \mid$ |     |       | 114        | -++                  |          | $\sqcup$      |              | $\dashv$ | _        |   |
|          | 15       |                                                  | <del>                                     </del> |                                          | 6        | 5         | ++++                                             |                    |     |       | 115        |                      | 1        | Ш             | $\perp$      | $\dashv$ | _        | _ |
| L        | 16       |                                                  |                                                  |                                          | 6        | 6         |                                                  |                    |     |       | 116        |                      | -        |               |              | _        | _        |   |
|          | 17       |                                                  |                                                  | 4                                        | 6        | 7         | +                                                | $\perp$            |     |       | 117        |                      | 1        | Ш             | $\dashv$     | $\dashv$ | 4        |   |
|          | 18       |                                                  |                                                  |                                          | 6        | 8         | $\bot$ $\bot$ $\bot$                             | $\perp$            |     |       | 118        |                      | $\bot$   | Ш             |              | $\dashv$ | $\dashv$ | _ |
|          | 19       |                                                  |                                                  |                                          | 6        | 9         |                                                  |                    |     |       | 119        |                      | 1        | Ш             |              | _        | 4        |   |
|          | 20       |                                                  |                                                  |                                          | 7        | 0         | $\bot$ $\bot$ $\bot$                             | $\perp$            |     |       | 120        |                      | 4_       |               |              | $\dashv$ | $\dashv$ | _ |
|          | 21       |                                                  |                                                  |                                          |          | 1         |                                                  |                    |     |       | 121        |                      | <u> </u> |               |              | $\dashv$ | _        | _ |
|          | 22       |                                                  |                                                  |                                          | 7        | 2         |                                                  | $\perp \perp$      |     |       | 122        |                      | $\bot$   |               |              | $\dashv$ | $\dashv$ | _ |
|          | 23       |                                                  |                                                  |                                          |          | 3         | ++++                                             |                    |     |       | 123        |                      | +        | Ш             | $\vdash$     | $\dashv$ | $\dashv$ | _ |
|          | 24       | <del>                                     </del> |                                                  |                                          | _ /      | 4         | ++++                                             |                    | 3   |       | 124        |                      | -        |               |              |          | $\dashv$ |   |
|          | 25       | H + H                                            |                                                  |                                          | <u> </u> | 5         | -                                                |                    |     |       | 125        |                      |          | $\vdash$      |              | $\dashv$ | $\dashv$ | _ |
|          | 26       | H + -                                            |                                                  |                                          |          | 6         | <del>                                     </del> |                    |     |       | 126<br>127 |                      | +        | Н             |              | $\dashv$ | +        | _ |
|          | 27       |                                                  |                                                  |                                          | - 1      | 8         |                                                  | +                  | 1   |       | 128        |                      | -        | Н             |              | $\dashv$ | $\dashv$ |   |
|          | 28<br>29 |                                                  | <del>}</del>                                     |                                          | 1 7      | 9         | +++                                              | +                  |     |       | 129        |                      | ╁        | Н             |              | +        | +        |   |
|          | 30       |                                                  |                                                  |                                          | - 1 /    | 0         |                                                  | +                  |     |       | 130        |                      | +        | Н             | $\dashv$     | +        | $\dashv$ | _ |
|          | 31       |                                                  | 1                                                |                                          |          | 1         | +++                                              | +                  |     |       | 131        |                      | +        | $\vdash$      | $\dashv$     | +        | $\dashv$ | _ |
|          | 32       | H + -                                            | <del>}                                    </del> |                                          |          | 2         | ++++                                             | +                  | 1   |       | 132        |                      |          | <del>  </del> |              | $\dashv$ | -+       |   |
|          | 33       | <del>                                     </del> |                                                  | +                                        | 8        | 3         | <del>                                     </del> |                    |     |       | 133        |                      |          | 1-            |              | -        | $\dashv$ | _ |
|          | 34       | =                                                | <del>                                     </del> | ++1                                      |          | 4         | ++++                                             | ++                 |     | -     | 134        |                      | +        | $\vdash$      |              | -        | $\dashv$ |   |
|          | 35       |                                                  | +                                                | ++                                       | B        | 5         | 1                                                | ++1                |     |       | 135        |                      | +        | $\vdash$      | $\dashv$     | $\dashv$ | $\dashv$ | _ |
| -        | 36       |                                                  | <del>}                                    </del> | 1.5                                      |          | 6         | <del></del>                                      | ++                 |     |       | 136        | <del>-   -   -</del> | +        | Н             | $\vdash$     | $\dashv$ | $\dashv$ |   |
|          | 37       | <del>                                     </del> | <del>                                     </del> |                                          | A        | 7         | ++++                                             | $\dashv \dashv$    |     |       | 137        |                      | 1        | Н             |              | $\dashv$ | $\dashv$ |   |
| -        | 38       |                                                  | <del>                                     </del> |                                          | 8        | 8         | <del>         </del>                             | $\dashv \dashv$    |     |       | 138        |                      | +        | Н             |              | $\dashv$ | $\dashv$ | _ |
|          | 39       |                                                  | <del>                                     </del> |                                          | 18       | 9         | 1 1 1 1                                          | $\top$             |     |       | 139        |                      | +        | П             |              | $\dashv$ | $\dashv$ |   |
|          | 40       | <del>                                     </del> |                                                  |                                          |          | io        | 1                                                | $\dashv \dashv$    |     |       | 140        |                      | $\top$   | М             |              | _        | $\dashv$ |   |
|          | 41       | <del>                                     </del> |                                                  |                                          |          | <u>n</u>  |                                                  | -                  |     |       | 141        |                      | T        | $\Box$        | $\neg$       | $\top$   | $\dashv$ |   |
|          | 42       |                                                  |                                                  |                                          | 9        | 2         |                                                  | $\Box$             |     |       | 142        |                      |          | П             |              | $\dashv$ | $\dashv$ |   |
| <u> </u> | 43       |                                                  |                                                  |                                          | 9        | 3         |                                                  |                    |     | -     | 143        |                      | 1        | $\Box$        | $\Box$       | $\neg$   | $\neg$   |   |
|          | 44       |                                                  |                                                  |                                          | 9        | 4         |                                                  |                    |     |       | 144        |                      |          |               |              | $\Box$   |          |   |
|          | 45       |                                                  |                                                  |                                          | 9        | 5         |                                                  |                    |     |       | 145        |                      |          |               |              | $\Box$   |          | _ |
|          | 46       |                                                  |                                                  |                                          | 9        | 6         |                                                  |                    |     |       | 146        |                      | 1        |               |              |          |          |   |
|          | 47       |                                                  |                                                  |                                          | 9        | 7         |                                                  |                    |     |       | 147        |                      | Ι        |               |              |          |          |   |
|          | 48       |                                                  |                                                  |                                          | 9        | 8         |                                                  |                    |     |       | 148        |                      |          |               |              |          | $\Box$   |   |
|          | 49       |                                                  |                                                  |                                          |          | 9         |                                                  |                    |     |       | 149        |                      |          |               |              | $\Box$   | $\Box$   |   |
|          | 50       |                                                  |                                                  |                                          | 10       | 00        |                                                  |                    | - [ |       | 150        |                      |          |               |              |          |          |   |

| Ind | ex | of | Cla | ain | ns |  |
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Applicant(s) Application No. 10/723,068

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Art Unit

| Cla   | aim      |                |                                                  | C               | Date     |          |         |        |     | Cla   | im       |                        | Date                                              |               |        |     | Cli   | aim        |          |         |     | Date       | е        |          |          |   |
|-------|----------|----------------|--------------------------------------------------|-----------------|----------|----------|---------|--------|-----|-------|----------|------------------------|---------------------------------------------------|---------------|--------|-----|-------|------------|----------|---------|-----|------------|----------|----------|----------|---|
| Final | Original | 7/9/04         |                                                  |                 |          |          |         |        |     | Final | Original |                        |                                                   |               |        |     | Final | Original   |          |         |     |            |          |          |          |   |
|       | 1        | .23            |                                                  | 1 1             |          | $\top$   | $\top$  | +-     |     |       | 51       |                        | 1                                                 | 11            |        |     |       | 101        | $\neg$   |         | +   | <b>†</b>   |          |          |          |   |
|       | 2        | 1              |                                                  | 11              | T        |          |         | $\top$ |     |       | 52       |                        |                                                   |               | 1      |     |       | 102        |          |         |     |            |          |          |          |   |
|       | 3        |                |                                                  |                 |          |          |         |        |     |       | 53       |                        |                                                   |               |        |     |       | 103        |          |         |     |            |          |          |          |   |
|       | 4        |                |                                                  |                 |          |          |         |        |     |       | 54       |                        |                                                   |               |        |     |       | 104        |          |         |     |            |          |          |          |   |
|       | 5        |                |                                                  |                 |          |          |         |        |     |       | 55       |                        |                                                   |               |        |     |       | 105        |          |         |     |            |          |          |          |   |
|       | 6        |                |                                                  |                 |          |          |         |        |     |       | 56       |                        |                                                   |               |        |     |       | 106        | _        |         | _   | ļ          |          |          | _        |   |
|       | 7        | 1              |                                                  | $\perp$         |          | _ _      |         |        |     |       | 57       |                        |                                                   | $\perp$       |        |     |       | 107        | $\dashv$ |         |     | 1          | _        | _        | _        |   |
|       | 8        | 1              | <u> </u>                                         | $\bot \bot$     | $\perp$  | 4        |         |        | M   |       | 58       |                        | ₩.                                                |               |        |     |       | 108        | l        |         |     | ـــ        |          |          |          |   |
|       | 9        | Н              | $\vdash$                                         | -               | $\dashv$ | _        | +       | +      |     |       | 59       | $\perp$                | $\perp \perp$                                     |               |        |     |       | 109        | _        |         | -   | ├-         |          | _        | _        |   |
|       | 10       | Ц              | $\vdash$                                         |                 | $\dashv$ | _        | $\perp$ | -      | Hii |       | 60       | -                      | +                                                 | +             |        |     |       | 110        | $\dashv$ |         | +   | $\vdash$   | -        |          | $\dashv$ | _ |
|       | 11       | $oldsymbol{+}$ | $\vdash$                                         | +               | $\dashv$ |          | +       | +      |     |       | 61       |                        | ++-                                               | ++            | +      |     |       | 111<br>112 |          |         | +   | $\vdash$   | $\vdash$ | $\dashv$ | $\dashv$ |   |
|       | 12<br>13 | H              | $\vdash$                                         | $\dashv \dashv$ |          | -+       |         | +      |     |       | 62<br>63 |                        | ++                                                | ++            | -      | 5.5 |       | 113        |          |         |     | +          | $\vdash$ |          | $\dashv$ |   |
|       | 14       | H              | +                                                |                 | $\dashv$ | +        | +       | +      |     |       | 64       |                        | +                                                 | ++            |        |     |       | 114        | $\dashv$ |         | +   | +          | $\vdash$ |          | -        |   |
|       | 15       | Н              | +                                                | +               | -        | +        | +       | +      |     |       | 65       | <del></del>            | +                                                 | ++            |        |     |       | 115        |          |         | ╁   | -          |          | $\dashv$ | $\dashv$ |   |
|       | 16       | H              | $\vdash$                                         | +               |          | -        |         |        |     |       | 66       | <del>-          </del> | ++                                                | ++            |        |     |       | 116        | $\dashv$ |         | +   | $\vdash$   |          | $\dashv$ | $\dashv$ | _ |
|       | 17       | H              | $\vdash$                                         | 1-1             |          | $\dashv$ | +-      | +-     |     |       | 67       |                        | 1 1                                               | ++            |        | 10  |       | 117        |          |         | +   | ╁          |          | $\neg$   | 一        | — |
|       | 18       | H              |                                                  | +               | $\dashv$ | -        |         |        |     |       | 68       |                        |                                                   | ++            |        |     |       | 118        |          | -       | +   | +          |          | $\dashv$ | $\dashv$ |   |
|       | 19       | H              | +                                                | +-              | $\dashv$ | $\dashv$ | +       | +      |     |       | 69       |                        | <del>                                      </del> | +             |        |     |       | 119        | T        |         | +   | t          |          | +        | $\dashv$ |   |
|       | 20       | H              |                                                  | 11              |          | _        | $\top$  | 1      |     |       | 70       |                        | t                                                 | +             |        |     |       | 120        | _        |         |     | <b>—</b>   |          |          | $\neg$   |   |
|       | 21       | Ħ              | † - † -                                          | 1               |          | $\neg$   | _       |        |     |       | 71       |                        | 1                                                 |               |        | 100 |       | 121        |          |         |     | t          |          | 1        | T        | _ |
|       | 22       | Ħ              |                                                  | 111             | T        |          |         | 1      |     |       | 72       |                        |                                                   |               |        |     |       | 122        | 一        |         |     | T          |          |          | $\Box$   | _ |
|       | 23       |                |                                                  |                 |          |          |         |        |     |       | 73       |                        |                                                   |               |        |     |       | 123        |          |         |     |            |          |          | T        |   |
|       | 24       | П              |                                                  |                 |          |          |         | T      |     |       | 74       |                        |                                                   |               |        | #:  |       | 124        |          |         |     |            |          |          |          |   |
|       | 25       | П              |                                                  |                 |          |          |         | I      |     |       | 75       |                        |                                                   |               |        |     |       | 125        |          |         |     |            |          |          |          |   |
|       | 26       |                |                                                  |                 |          |          |         |        |     |       | 76       |                        |                                                   |               |        |     |       | 126        |          |         |     |            |          |          |          |   |
|       | 27       | Ц              |                                                  |                 |          |          |         |        |     |       | 77       |                        |                                                   | $\perp$       |        |     |       | 127        | _        |         |     |            |          | _        |          |   |
|       | 28       | Ц              | <b>L</b>                                         | 44              |          |          | _       | 4      |     |       | 78       |                        | $\perp \perp$                                     | 11            |        |     |       | 128        | _        |         | _   | $oxed{}$   |          | _        | _        |   |
|       | 29       | Ц              |                                                  | $\perp$         |          | _        |         |        |     |       | 79       |                        |                                                   | $\bot\bot$    |        |     |       | 129        |          |         |     | ↓_         | _        |          | _        |   |
|       | 30       | Ц              | $\perp \perp$                                    | $\perp$         |          | _        | _       | _      |     |       | 80       |                        | +                                                 | $\bot\bot$    |        |     |       | 130        | _        |         | -   | <u> </u>   | _        | _        | _        |   |
|       | 31       | Ц              |                                                  | $\dashv$        | _        | _        | _       | +      |     |       | 81       |                        | <del> </del>  -                                   |               |        |     |       | 131        | _        |         | _ - | <u> </u>   | _        | _        | $\dashv$ |   |
|       | 32       | Н              | H                                                | +               | -        | -        | +       | _      | 1   |       | 82       |                        | +                                                 |               |        |     |       | 132        | _        |         | -   | -          |          | -        | -        |   |
|       | 33<br>34 | 1              |                                                  | +               | -+       | +        | +       | +      | -   | -     | 83<br>84 | -                      |                                                   |               |        |     |       | 133<br>134 |          |         |     | ┼          | -        |          | $\dashv$ | _ |
|       | 35       | =              |                                                  |                 |          | -+       | +       |        |     | -     | 85       |                        | ╁┼                                                | ++            |        |     |       | 135        | -        |         | -   | -          | $\vdash$ |          | -+       |   |
|       | 36       | -              | <del>                                     </del> |                 | $\dashv$ | -        | - -     | +-     | 1   |       | 86       |                        | +-+                                               | +             |        |     |       | 136        |          |         | +   | $\vdash$   | $\vdash$ |          | $\dashv$ |   |
|       | 37       |                | ++                                               | +               | +        | +        | +       | +      | H   |       | 87       |                        | ++                                                | ++            | +      |     |       | 137        |          |         | +   | +          | $\vdash$ | -        | $\dashv$ |   |
|       | 38       | -              | +                                                | +               | $\vdash$ | +        | +       | +      |     |       | 88       |                        | ++                                                | +-+           |        |     |       | 138        | -        | -       | +-  | $\vdash$   | $\vdash$ | $\dashv$ | $\dashv$ | _ |
|       | 39       |                | +                                                | $\dashv \dashv$ | $\vdash$ | $\dashv$ | +       | +-     |     |       | 89       |                        | ++                                                | ++            | -      |     |       | 139        | -        | -       | +   | +          | $\vdash$ | +        | $\dashv$ |   |
|       | 40       |                | +                                                | $\dashv \dashv$ | $\dashv$ | $\dashv$ | +       | +      |     |       | 90       |                        | ++                                                | ++            | $\top$ |     |       | 140        |          |         | +   | 1          |          | $\dashv$ | 十        | _ |
|       | 41       |                |                                                  | 1               | $\Box$   | $\top$   | $\top$  | $\top$ | 1 1 |       | 91       |                        | +                                                 | +             |        | 155 |       | 141        | $\dashv$ |         | +   | 1          |          | 一        | 一        | _ |
|       | 42       |                |                                                  | 1-1             |          | $\top$   | 十       | $\top$ | 1   |       | 92       | <del>        -</del>   | $\dagger \dagger$                                 | $\top$        |        | 4   |       | 142        | $\neg$   |         |     | †          |          |          | $\dashv$ |   |
|       | 43       |                |                                                  |                 |          |          |         | I      | ]   |       | 93       |                        |                                                   |               |        |     |       | 143        |          |         |     |            |          |          |          |   |
|       | 44       |                |                                                  |                 |          |          |         |        |     |       | 94       |                        |                                                   |               |        |     |       | 144        |          |         |     |            |          |          |          | _ |
|       | 45       |                |                                                  |                 |          |          |         |        |     |       | 95       |                        |                                                   |               |        |     |       | 145        |          |         |     |            |          |          |          | _ |
|       | 46       |                |                                                  | Ш               | $\Box$   | $\perp$  |         |        |     |       | 96       |                        | $\bot \bot$                                       | $\perp T$     |        |     |       | 146        |          |         |     | L          |          |          | $\Box$   |   |
|       | 47       |                | Ш                                                | ot              |          |          | _       | _      |     |       | 97       | $\bot\bot\bot$         |                                                   | 11            |        |     |       | 147        |          |         |     | <u>L</u> . | oxdot    | $\Box$   |          |   |
|       | 48       |                | $\sqcup \!\!\!\! \perp$                          |                 |          |          | _       | 4_     | Mi. |       | 98       |                        | $\perp \downarrow$                                | $\perp \perp$ |        |     |       | 148        |          |         |     | $\vdash$   | L_       | [        |          | _ |
|       | 49       | _              | $\perp$                                          | $\perp \perp$   |          | _        | 4       | _      |     | ļ     | 99       | $\bot\bot\bot$         | + +                                               | $\perp \perp$ |        |     |       | 149        | _        | $\perp$ | -   | ╄          | $\sqcup$ | _        | $ \bot $ |   |
|       | 50       | <u> </u>       |                                                  |                 | _        |          |         |        | ] [ |       | 100      |                        |                                                   |               | L      |     |       | 150        |          |         |     |            | 1        |          | - 1      |   |